AMENDMENTS TO THE CLAIMS

1-12 11. (Cancelled).

communication network; and

- 43 <u>12</u>. (Currently Amended) A node for an optical communication network comprising: at least one switching unit;
 - a plurality of optical interfaces to connect to a Wavelength Division Multiplex (WDM) transmission line, each optical interface comprising:
 - a demultiplexer to disassemble an incoming multiplex signal arriving from the WDM transmission line into a plurality of input channels, each input channel being supplied to an input port of the switching unit; and
 - a multiplexer to assemble a plurality of output channels from a corresponding plurality of output ports of the switching unit into an outgoing multiplex signal; and at least one receiver to extract an information signal received from the optical
 - an input branching mechanism disposed on the path of the input channels between each optical interface and the switching unit to selectively supply an input channel to the switching unit and to the receiver.
- 44 <u>13</u>. (Currently Amended) The node of claim <u>43 12</u> wherein the demultiplexer includes a plurality of output ports, and wherein the input branching mechanism comprises a switch associated with each demultiplexer output port to selectively connect the demultiplexer output port to one of the input ports of the switching unit or to the receiver.

- 45 14. (Currently Amended) The node of claim 44 13 wherein the a number of receivers corresponds to the number of input channels, and wherein the input branching mechanism connects each receiver to an associated demultiplexer output port.
- 46 <u>15</u>. (Currently Amended) The node of claim <u>13 14</u> wherein each receiver comprises an optical-electrical converter.
- 47 <u>16</u>. (Currently Amended) A node for an optical communication network comprising: at least one switching unit;
 - a plurality of optical interfaces to connect to a Wavelength Division Multiplex (WDM) transmission line, each optical interface comprising:
 - a demultiplexer to disassemble a multiplex signal arriving from the WDM transmission line into a plurality of input channels, each input channel being supplied to an input port of the switching unit; and
 - a multiplexer to assemble a plurality of output channels from a corresponding plurality of output ports of the switching unit into an outgoing multiplex signal; and
 - at least one transmitter to supply an information signal to the optical communication network; and
 - an output branching mechanism disposed on the path of the output channels between each optical interface and the switching unit to selectively supply an output channel to the interface from the switching unit and from the transmitter.
- 48 <u>17</u>. (Currently Amended) The node of claim <u>47 16</u> wherein the multiplexer includes a plurality of input ports, and wherein the output branching mechanism comprises a switch associated with

each multiplexer input port to selectively connect the multiplexer input port to one of the output ports of the switching unit or to the transmitter.

49 18. (Currently Amended) The node of claim 48 17 wherein the a number of transmitters corresponds to the number of output channels, and wherein the output branching mechanism connects each transmitter to an associated multiplexer input port.

20 19. (Currently Amended) The node of claim 47 18 wherein the transmitter connects to one or more output channels and is adapted to supply an information signal having a selectable wavelength to one of the output channels.

24 <u>20</u>. (Currently Amended) The node of claim <u>47 18</u> wherein each transmitter comprises an electrical-optical converter.

- 22 21. (Currently Amended) A node for an optical communication network comprising: at least one switching unit;
 - a plurality of optical interfaces to connect to a Wavelength Division Multiplex (WDM) transmission line, each optical interface comprising:
 - a demultiplexer to disassemble a multiplex signal arriving from the WDM transmission line into a plurality of input channels, each input channel being supplied to an input port of the switching unit; and
 - a multiplexer to assemble a plurality of output channels from a corresponding plurality of output ports of the switching unit into an outgoing multiplex signal; and

- at least one transponder comprising a transmitter to supply an information signal to the optical communication network and a receiver to extract an information signal received from the optical communication network; and
- a branching mechanism disposed between each optical interface and the switching unit to selectively supply an output channel to the interface from the switching unit and from the transmitter and to selectively supply an input channel to the switching unit and to the receiver;

wherein the transmitter and receiver of each transponder are connected to the same branching mechanism.

23 <u>22</u>. (Currently Amended) The node of claim <u>22</u> <u>21</u> further wherein each branching mechanism is further operative to supply to the switching unit an input channel from the optical interface or from one of the transponders, and to supply an output channel from the switching unit to an output channel of the optical interface or to one of the transponders[[:]].

24 <u>23</u>. (Currently Amended) The node of claim <u>22 21</u> wherein each receiver comprises an optical-electrical converter, and each transmitter comprises an electrical-optical converter.

25 24. (Currently Amended) The node of claim 22 21 wherein the transponder includes a signal regenerator circuit.